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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,678	05/04/2005	Minoru Nakayama	3103-109	2059
66458 WATCHSTON	7590 04/03/2007 TE P+D, PLC	EXAMINER		
1250 CONNECTICUT AVENUE, N.W. SUITE 700 WASHINGTON, DC 20036-2657			NGUYEN, SON T	
			ART UNIT	PAPER NUMBER
W188111 (616), BC 20030 2037			3643	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		04/03/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
	10/511,678	NAKAYAMA ET AL.
Office Action Summary	Examiner	Art Unit
	Son T. Nguyen	3643
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a vill apply and will expire SIX (6) MC	ICATION. In reply be timely filed INTHS from the mailing date of this communication. ARANDONED (35 U.S.C. & 133)
Status		
1) Responsive to communication(s) filed on <u>04 Jac</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal ma	
Disposition of Claims		
4) Claim(s) 1-26 is/are pending in the application. 4a) Of the above claim(s) 1-22 and 24 is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 23,25 and 26 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to by the Examiner 10) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the construction and or declaration is objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 11.	thdrawn from considerate relection requirement. The prediction objected to the drawing of the drawing of the drawing on is required if the drawing on is required if the drawing of the d	by the Examiner. Ince. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119	,	
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in a ity documents have been (PCT Rule 17.2(a)).	Application No received in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/ūč) Paper No(s)/Mail Date 2/23/05.	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of group III, species II, claims 23,25,26, in the reply filed on 1/4/07 is acknowledged. Note, the election is considered without traverse because Applicant did not provide argument against the restriction requirement.

Claims 1-22,24 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected group III, species II, there being no allowable generic or linking claim.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the driving portion and coils must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for

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of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. **Claims 23,25,26** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are generally narrative and indefinite, failing to conform with current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors.

It is unclear if the creature models are of layers of laminated material through a polymeric electrolyte therebetween or is it the driving portion for the generating power because the claims seem to indicate the driving portion but the drawing shows that the creature models are made out of laminated layers of polymeric electrolyte. For examining purpose, the Examiner is considering the driving portion includes the polymeric electrolyte. In addition, the number "2" in the claims should be spelled out as two.

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Claim Rejections - 35 USC § 103

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5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 23,25,26 are rejected under 35 U.S.C. 103(a) as being-unpatentable over Houcho (JP2003-961 on form PTO-1449) in view of Chia et al. (6617078).

Houcho teaches a display device comprising creature models 2 in a pseudo space (the tank), the models are provided with a driving portion (as shown in fig. 6, the electronic components) and coils 6,11 which generate electromagnetic field for generating power to move the models. However, Houcho is silent about the driving portion being composed of polymeric actuator elements in which two metal layers are laminated through a polymeric electrolyte therebetween.

Chia et al. teach well known driving portion, i.e. battery/lithium cells, to produce power used in a variety of electronic devices. The driving portion is lithium cells made from polymeric electrolytes that are laminated in between metal layers (col. 1, lines 49-60). It would have been obvious to one having ordinary skill in the art at the time the invention was made to employ polymeric actuator elements in which two metal layers are laminated through a polymeric electrolyte therebetween as taught by Chia et al. as the preferred driving portion of Houcho in order to provide higher energy/voltage, flexible and robust driving portion to move the models (col. 1, lines 55-60 of Chia et al.).

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Son T. Nguyen whose telephone number is 571-272-6889. The examiner can normally be reached on Mon-Thu from 10:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter M. Poon can be reached on 571-272-6891. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Son T Nguyen Primary Examiner AU 3643